

CLAIMS

1. A battery comprising:

a tubular metal case defining upper and lower open ends;

5 a metal member mounted in said case proximate to said upper end
and electrically insulated therefrom;

an electrode assembly having a plurality of first polarity tabs
extending in a first direction therefrom and a plurality of second polarity tabs
extending in a second direction therefrom;

10 said plurality of first polarity tabs being electrically connected to
said metal member;

said plurality of second polarity tabs being electrically connected
to said case proximate to said lower end; and

15 first and second end caps for respectively sealing said upper and
lower ends.

2. The battery of claim 1 further including:

a dielectric ring mounted in said case proximate to said upper end;

and wherein

20 said metal member is mounted to said dielectric ring.

3. The battery of claim 1 wherein said electrode assembly is comprised of helically wound positive and negative electrode strips separated by a spacer strip; and wherein

said positive electrode strip comprises an elongate metal strip
5 bearing positive active material and said negative electrode strip comprises an elongate metal strip bearing negative active material; and wherein

said plurality of first polarity tabs are connected to said positive electrode metal strip spaced along the length thereof and said plurality of second polarity tabs are connected to said negative electrode metal strip spaced along the
10 length thereof.

15

20

4. A battery comprising:

a tubular metal case having open first and second ends and defining an interior volume;

a dielectric member mounted in said case adjacent to said first
5 open end;

a metal member supported by said dielectric member;

an electrode assembly comprising a first polarity electrode strip and
a second polarity electrode strip helically wound together with a separator strip
between adjacent layers;

10 a first plurality of first polarity metal tabs connected to spaced
points along said first polarity electrode strip;

a second plurality of second polarity metal tabs connected to
spaced points along said second polarity electrode strip;

said first and second pluralities of metal tabs extending in opposite
15 directions from said electrode assembly;

said electrode assembly mounted in said interior volume with said
first plurality of tabs electrically connected to said metal member and with said
second plurality of tabs pinched between the case second end and a metal end cap
secured to said case second end.

20